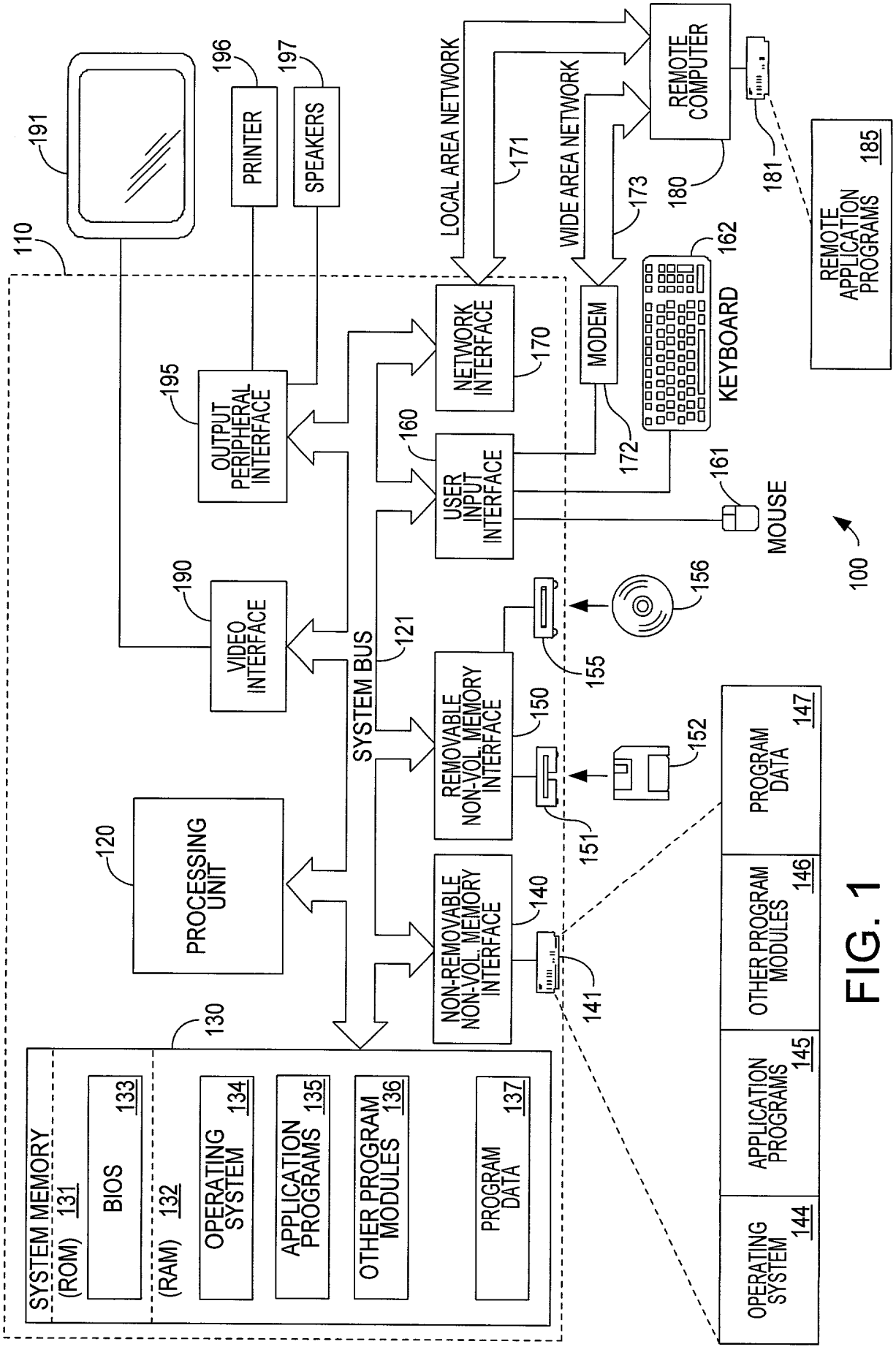
SYSTEM MEMORY
(ROM) 131
BIOS 133
(RAM) 132
OPERATING SYSTEM 134
APPLICATION PROGRAMS 135
OTHER PROGRAM MODULES 136
PROGRAM DATA 137
130
PROCESSING UNIT
120
SYSTEM BUS
121
VIDEO INTERFACE
190
OUTPUT PERIPHERAL INTERFACE
195
PRINTER
196
SPEAKERS
197
191
110
NETWORK INTERFACE
170
LOCAL AREA NETWORK
171
MODEM
172
WIDE AREA NETWORK
173
REMOTE COMPUTER
180
181
REMOTE APPLICATION PROGRAMS
185
USER INPUT INTERFACE
160
KEYBOARD
162
MOUSE
161
REMOVABLE NON-VOL. MEMORY INTERFACE
150
155
156
151
152
NON-REMOVABLE NON-VOL. MEMORY INTERFACE
140
141
PROGRAM DATA
147
OTHER PROGRAM MODULES
146
APPLICATION PROGRAMS
145
OPERATING SYSTEM
144
100

FIG. 1

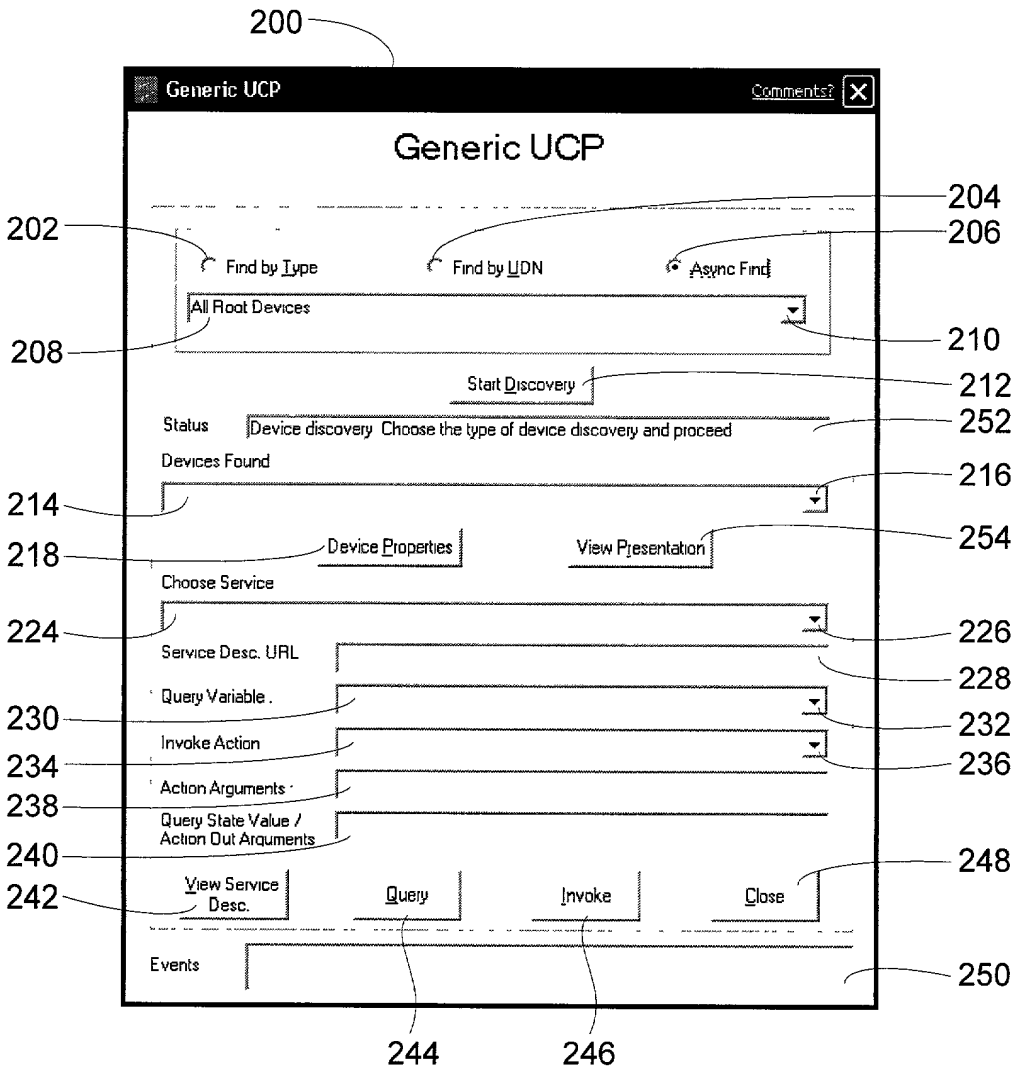
200
Generic UCP
Comments?
Generic UCP
202
204
206
Find by Type
Find by UDN
Async Find
All Root Devices
208
210
Start Discovery
212
Status
Device discovery Choose the type of device discovery and proceed
252
Devices Found
214
216
218
Device Properties
View Presentation
254
Choose Service
224
226
Service Desc. URL
228
Query Variable .
230
232
Invoke Action
234
236
Action Arguments
238
Query State Value / Action Out Arguments
240
248
242
View Service Desc.
Query
Invoke
Close
Events
250
244
246

FIG. 2

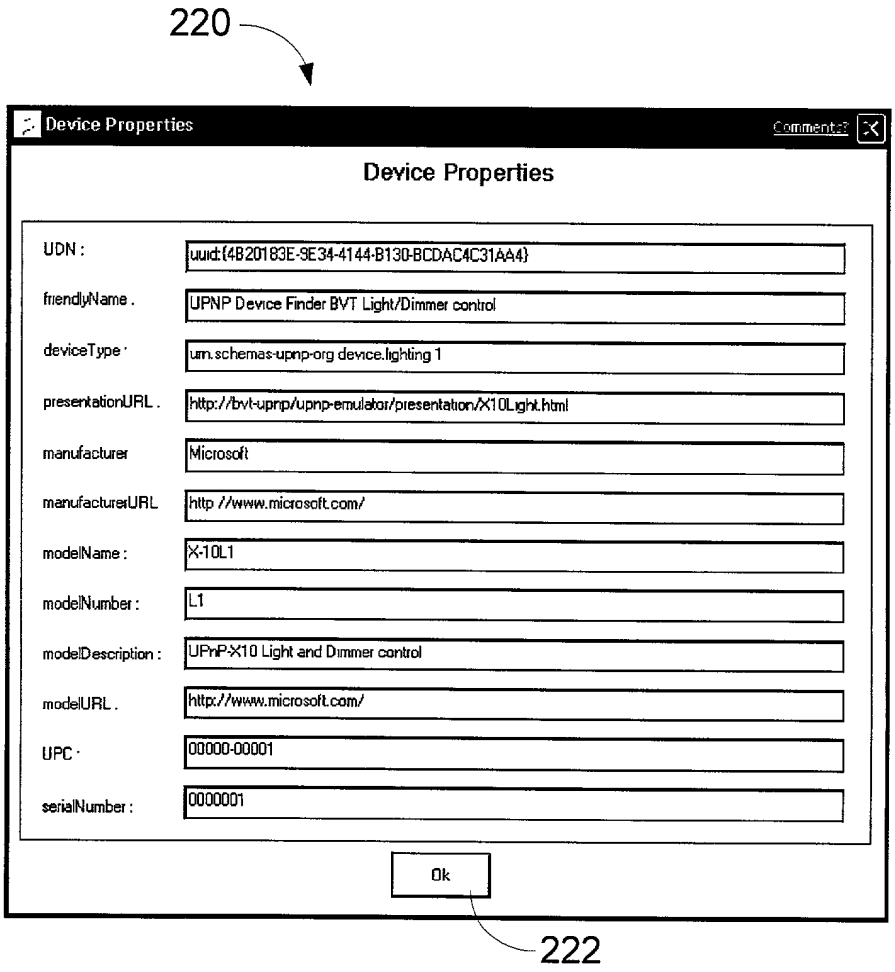
220
Device Properties
Comments
Device Properties
UDN :
uuid:{4B20183E-9E34-4144-B130-BCDAC4C31AA4}
friendlyName .
UPNP Device Finder BVT Light/Dimmer control
deviceType :
urn:schemas-upnp-org:device:lighting:1
presentationURL .
http://bvt-upnp/upnp-emulator/presentation/X10Light.html
manufacturer
Microsoft
manufacturerURL
http://www.microsoft.com/
modelName :
X-10L1
modelNumber :
L1
modelDescription :
UPnP-X10 Light and Dimmer control
modelURL .
http://www.microsoft.com/
UPC :
00000-00001
serialNumber :
0000001
Ok
222

FIG. 3

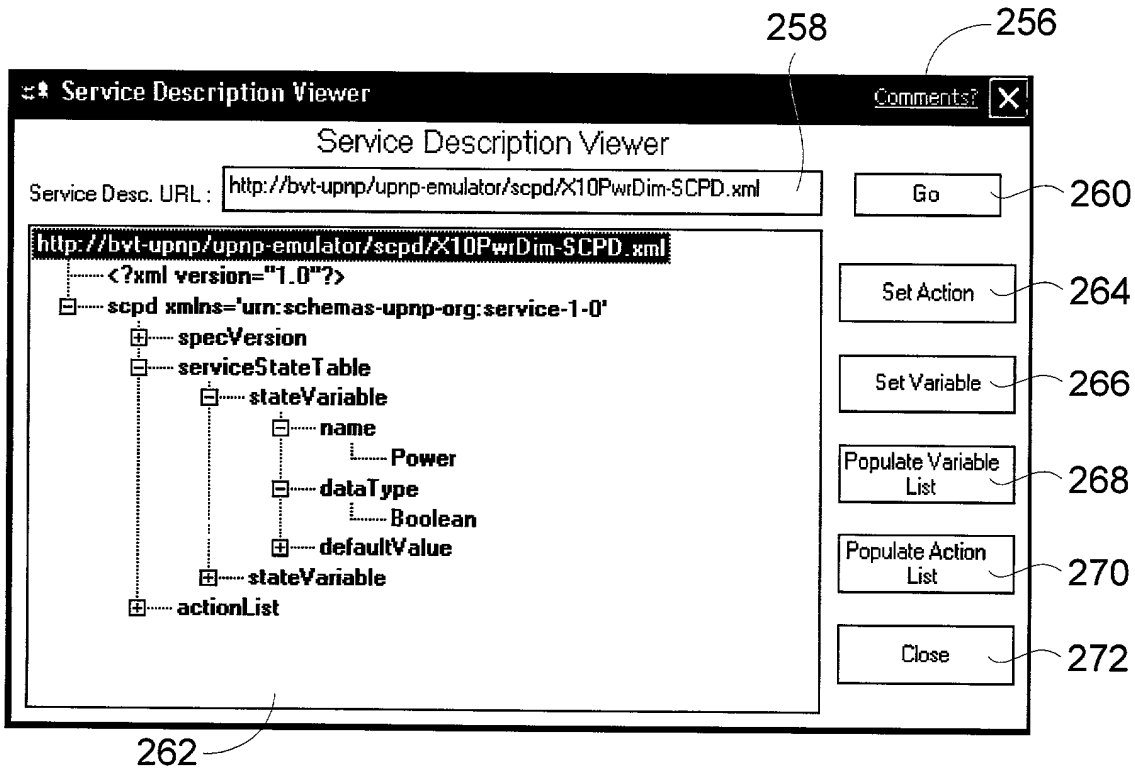
258
256
Service Description Viewer
Comments?
Service Description Viewer
Service Desc. URL :
http://bvt-upnp/upnp-emulator/scpd/X10PwrDim-SCPD.xml
Go
260
http://bvt-upnp/upnp-emulator/scpd/X10PwrDim-SCPD.xml
<?xml version="1.0"?>
scpd xmlns='urn:schemas-upnp-org:service-1-0'
specVersion
serviceStateTable
stateVariable
name
Power
dataType
Boolean
defaultValue
stateVariable
actionList
Set Action
264
Set Variable
266
Populate Variable List
268
Populate Action List
270
Close
272
262

FIG. 4